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DIPHTHERIA TYPING IN EPIDEMIOLOGICAL STUDY

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The epidemics of diphtheria which spread from Germany over occupied Europe in the five years of the war should direct the attention of public health authorities of all countries to the potential danger still inherent in this so-called preventable disease. Stowman¹ has shown that "serum resistant" strains of the organism were associated with high fatality rates in this epidemic. This fact, together with a change in the age group most affected, presents a new challenge to public health authorities. Technical advances have improved the service which the public health laboratory can offer the epidemiologist. This is illustrated by the study to be described. Since the differentiation of diphtheria types by Anderson² and his co-workers, the strains of *C. diphtheriae* isolated from cases in many outbreaks have been studied. Usually a single type will predominate in at least the early part of an outbreak. The original opinion of these workers that gravis type strains are more likely to cause severe or fatal diphtheria than are mitis type strains is not supported by all subsequent observers. There is, however, considerable evidence that gravis strains are more frequently the cause of severe disease than are the mitis strains. The evidence that intermedius type strains usually cause severe disease uniformly supports the opinion of early workers. While all bacteriologists do not agree as to criteria of type differentiation, all recognize the broad separation into gravis and mitis type strains. Frobisher³ suggests the use of a classification of *C. diphtheriae* which does not imply any relationship between type of infecting organism and the clinical severity of the disease. For the term "gravis" he would use Roman numeral VII—for the designation "mitis" the letter "O." Intermediate strains are to be numbered I to VI depending on how many of the seven biochemical and cultural reactions

which Frobisher considers characteristic of "gravis," or Type VII, they possess. In Great Britain "intermedius" is recognized as a separate type of *C. diphtheriae*. Whether or not a specific type of *C. diphtheriae* causes severe or mild disease, the usefulness of typing in epidemiological studies was demonstrated in the outbreak to be described.

EPIDEMIOLOGICAL STUDY

Within a week nine suspected cases of diphtheria were reported in Berkeley and Albany, a small incorporated city north of Berkeley. There is no physical boundary separating the two communities. Five of these suspected cases occurred in a war housing project in Albany named Cordones Village. The Health Officer of Albany has jurisdiction over the "Village," but the public health nurses of the Berkeley Health Department are under contract to serve as visiting public health nurses in Cordones Village. The laboratory of the Berkeley Health Department confirmed the diagnoses and made the examinations for release of the cases and carriers. Field cultures from both the Berkeley Health Department laboratory and the laboratory of Highland Hospital where the cases were isolated were submitted to the laboratories of the School of Public Health, University of California, as a part of a study* which is being conducted on cultures collected from all parts of the state.†

On November 20, 1944, a physician in Albany was called to see sick children in the X— family in Cor-

* ACKNOWLEDGMENTS: This study has been carried on under a grant from the Research Fund of the University of California. The diphtheria antitoxin used in the projected 10-year study of the variation in occurrence and distribution of types of *C. diphtheriae* in California has been supplied by Cutter Laboratories, Berkeley.
† Miss Beattie will receive field cultures from any health officer or physician in private practice in California and will give a report as to the type of organism isolated.

donices Village. The onset of the first case (BX) had been on November 15th. A second child (AX) had become ill on November 17th.

On November 20, the visiting nurse of the Berkeley Health Department was called to see sick children in the Y— family which lived across the hall from the X— family in Cordonices Village. Mr. Y and two daughters (CY—DY) ages 5 and 3 respectively, were immediately hospitalized with diphtheria. This dual discovery was alarming to the health authorities of both cities and to the Housing Authority. After the death of AX on November 25 and of CY a few days later, the alarm was increased.

Within the week three persons in the Z— family became ill and were reported as suspected cases of diphtheria. This family lived in Berkeley in a district which was remote from the housing project.

Since there had been no previously reported cases of diphtheria in Albany since 1940, and none in Berkeley since July, 1944, some source of infection common to these cases or a contact relationship between the three families was sought, for it was deemed important to block any further spread from such a possible source and to detect other missed carriers or cases. The close relationship of the neighboring families in the housing project was assumed to provide a satisfactory explanation for the occurrence of these cases of diphtheria, for the Y— family were reported to have arrived nine days before the X— family. No contact relationship with the Cordonices Village cases could be established for the cases of the Z— family.

Repeated cultures from the three members of the Z— family (Mrs. Z, AZ and BZ) who had been reported as suspected cases, were shown to contain only *avirulent* mitis type organisms.

Cultures for typing were received from only one member of the X— family, that from Mrs. X—, who was classified as a carrier. This was due to the fact that the cultures from AX and BX were discarded and not submitted to this laboratory for study. This strain isolated from Mrs. X— was classified as *gravis* type *C. diphtheriae*.

Four members of the Y— family were reported as cases of diphtheria and two as carriers. *Intermedius* type *C. diphtheriae* was isolated repeatedly from the four cases. No cultures from the carriers were available when the typing study was undertaken.

When this variation in type of infecting organism was discovered the Health Officer of Berkeley interrogated the adults in both families and discovered that the X— family had come to Berkeley from Ohio on November 13. The family consisted of Mr. and Mrs. X— and three sons, AX age 10, BX age 9, and CX age 6. They had traveled via Los Angeles. During the period of time the family visited in Los Angeles, and

for several months before, several hundred cultures sent for typing from that city had yielded more than 50 per cent *gravis* type strains of *C. diphtheriae*. The onset of the first case in this family (BX) was but two days after their arrival in Berkeley. Two members of the family, Mr. X and CX, the six-year old son, were not ill and did not yield positive cultures. Mrs. X— was a carrier for many weeks. AX and BX were hospitalized with diphtheria and AX died within a week.

The parents of the Y— family came from Fresno to Berkeley and set up residence in an apartment in Cordonices Village on November 11th, two days before the arrival of the X— family. The children of the Y— family, however, did not come to live with their parents until the fifteenth of November, the day on which the first case (BX) in the X— family had shown symptoms of the disease. The family consisted of Mr. and Mrs. Y— and four children: two girls, CY age 5, DY age 3; and two boys, AY age 11, BY age 7. Enroute to Berkeley on November 15, CY became ill and was immediately confined to bed on arrival. On November 17th, DY and Mr. Y— were ill with diphtheria. On November 20, following the visit of the public health nurse, the three patients, Mr. Y, CY, and DY, were sent to the isolation hospital. Mrs. Y— became ill and joined the other members of the family in the isolation hospital on November 24th. CY died in the hospital. The two boys (AY and BY) were reported to have been ill in Fresno but were recovered in time to come to Berkeley. Both had positive throat cultures at the time the other children were hospitalized and were held under observation for the incubation period. They were finally classified as carriers. These cultures were not submitted for typing. Neither boy had been reported as a case of diphtheria in Fresno and it was not possible to discover the nature or extent of their illness. However, during the month of November, *intermedius* type organisms were isolated from three of six cultures of *C. diphtheriae* received from six cases in Fresno.

SUMMARY AND CONCLUSIONS

A *gravis* type strain of *C. diphtheriae* was isolated repeatedly from cultures from Mrs. X—, who showed no symptoms of the disease and was classified as a carrier. Unfortunately, no other cultures were received from the X— family, but it seems reasonable to assume that the two children in the family were infected by the same strain which their mother carried. This assumption is based on a study of over five hundred strains of *C. diphtheriae* isolated from cases and carriers in California. In no instance has the strain isolated from any member of a family group differed in type from the strains isolated from other members of that family. Cultures from Mr. and Mrs. Y—, CY and DY yielded *intermedius* type *C. diphtheriae*. All strains

isolated from the Z— family were avirulent mitis type *C. diphtheriae*. Without this information concerning the types involved, the true epidemiological picture of the relationship of diphtheria occurring simultaneously in these three families would never have been disclosed. The types of organisms carried to Berkeley and Albany by the X and Y families were rare throughout California but were unusually prevalent in the communities from which they had recently come.

Had no typing of pure culture studies been done in this Berkeley-Albany outbreak, certain false assumptions might have been made. First, that one family in the Cordoneces Village housing unit had served as a source of infection for the other; that these families and the Z— family had contracted the disease from a common source; that the disease had spread from the housing project into Berkeley which was a possibility since a week had elapsed between the onset of the disease in the X— family and the isolation of the case.

A survey of the literature of the past decade reveals no instance in which the typing of the infecting strain of *C. diphtheriae* has served to clarify the epidemiological study of an outbreak or to direct the epidemiological investigation. Croll,⁴ reporting an outbreak of 26 cases in an R. A. F. camp, was "able to exonerate" two carriers of mitis type organisms since cultures from the cases had yielded only *C. diphtheriae* of an intermedius type.

Typing of strains of *C. diphtheriae* may be of service to the epidemiologist. There is evidence that epidemiologists may need such service if diphtheria spreads with the postwar movement of workers from a war industry area, such as Los Angeles, where diphtheria of the rare types has been unusually prevalent.

REFERENCES

- ¹ Stowman, Knud, "Diphtheria Rebounds," *The Epidemiological Information Bulletin*, U. N. R. R. A. (Feb. 28, 1945), 137.
- ² Anderson, J. S., Happold, F. C., McLeod, J. W., and Thompson, S. G. "On the Existence of Two Types of Diphtheria Bacillus. B. Diphtheriae Gravis and B. Diphtheriae Mitis." *Journal of Pathology and Bacteriology* XXXIV (July, 1931), 667.
- ³ Frobisher, Martin. "The Etiology of Malignant Diphtheria," *American Journal of Public Health*, XXXIII (October, 1943), 1244.
- ⁴ Croll, J. M. "Outbreak of Diphtheria at an R. A. F. Camp," *Monthly Bulletin Ministry of Health and Emergency Public Health Laboratory Service*, III (May, 1944), 79-84.

IRANIAN PUBLIC HEALTH OFFICIAL VISITS CALIFORNIA

As part of a tour of public health institutions throughout the United States, Dr. H. Hafezi, head of the Iranian Ministry of Health's statistical and publicity department, visited the State Department of Public Health and other health centers in California in October.

A guest of the United States Department of State, Dr. Hafezi has visited the National Institute of Health, the North Carolina Board of Health, malarial control centers in Georgia, and Louisiana's Leprosarium in addition to his trip here.

Dr. Hafezi was the Iranian delegate to the recent United Nations Health Conference in New York. He is prominent in the medical affairs of his country, serving as a member of the Ministry of Health's administrative staff, as editor of the Ministry's official Journal, and as treasurer of the Teheran Medical Association.

NEW LOCATION ANNOUNCED FOR S.F. MCH BUREAU OFFICES

Visitors to the San Francisco offices of the Bureau of Maternal and Child Health, State Department of Public Health, will have a better chance of locating their objective if they keep the following changes in mind.

Bureau of Maternal and Child Health offices are now located in the Pacific Building, 821 Market Street, San Francisco, according to the following schedule.

	Room
Reception room	732
Jessie Bierman, M.D.	734
Marcia Hays, M.D.	723
Anita Faverman, M.D.	750

Dr. Bierman also has an office in Room 741 Phelan Building, 760 Market Street.

CONSULTANT IN MENTAL HEALTH

Kent A. Zimmerman, M.D., has been appointed Consultant in Mental Health in the Division of Preventive Medical Services, State Department of Public Health. Dr. Zimmerman had his training in pediatrics and psychiatry and was a member of the staffs of the pediatrics and psychiatry departments of Cornell Medical School and of New York Hospital.

During the war, Dr. Zimmerman served as a psychiatrist in the Merchant Marine Cadet School at San Mateo and more recently was Director of the Mental Health Unit of the U. S. Children's Bureau.

An article, "Mental-Health Services in the Health-Department Program," by Dr. Zimmerman is printed in the September 1946 issue of *The Child*, the monthly publication of the U. S. Children's Bureau.

CLASSES FOR CEREBRAL PALSY CHILDREN

Classes for cerebral palsy children in eight school districts are now in operation in addition to the two Residence Schools in Los Angeles and Redwood City.

These districts are: Vallejo, Berkeley, Oakland, San Mateo, Santa Rosa, San Luis Obispo, Ventura and Los Angeles.

PARTICIPATION OF LOCAL FULL-TIME HEALTH DEPARTMENTS IN SCHOOL HEALTH PROGRAMS IN CALIFORNIA

IIIB. PHYSICAL EXAMINATION PROGRAM FOR SCHOOL CHILDREN*

BERNICE MOSS, Ed. D., Consultant in School Health Education, State Department of Education

One of the problems in securing adequate school health examinations is the attitude and training of medical personnel who conduct the service. Spock states that "medical education is not providing physicians with a training which combines the physical, emotional and educational aspects of children to a degree sufficient to give medical assistance to educators,"¹ and Wheatley maintains that "pediatric knowledge must be applied here just as in the infant and pre-school area if better results are to be obtained."² The American Public Health Association Committee on Professional Education recommends that school medical advisors will have special training in pediatrics,³ and Wheatley avers that "physicians doing school work likewise need the leadership and guidance which good medical supervision gives."⁴

These statements point up the strategic position of the health department which employs a pediatrician for child health work as a desirable source of good school medical service. The impetus which health departments have given to the organization of well-baby and well-child conferences for the purpose of educating and advising mothers concerning the health care of young children, and the employment of trained pediatricians to conduct such programs, could very readily be carried further to include similar programs for children of school age, provided sufficient personnel are employed. The health department which has exercised medical supervision over pre-school children, if it continues that supervision into the school period, has the benefit of contact with the parents and continuous health records of at least a percentage of the children in the schools.

PARTICIPATION OF PUBLIC HEALTH DEPARTMENTS

The situation with regard to the participation of California public health departments in physical examination programs for school children in 1945 was included in the survey conducted by the author. The results are summarized in Table 1 and indicate limited participation in such programs, with 20 of the 38 health departments reporting some responsibilities for school physi-

cal examinations. Several departments volunteered information that wartime shortages of personnel had necessitated curtailment of their programs, and that they were hopeful that increased service in this area could be organized in the postwar period.

TABLE I

Summary of School Physical Examination Programs of Health Departments in California

Number of city and county health departments replying to the questionnaire	38
Number of departments conducting school health examinations	20
Number of departments using	
Full-time health department physicians	10
Part-time health department physicians	4
Full-time and part-time health department physicians	3
Private physicians	3
Number conducting examinations	
In schools	17
In health department clinics	2
In both schools and clinics	1
Number reporting examinations of	
Entering children	17
Referrals by teachers and nurses	10
Children in specific grades	
1st—5	7th—3
2d—1	8th—1
3d—2	9th—1
4th—1	10th—1
5th—2	12th—1
6th—0	
Athletes	5
Children brought to clinics of health department by parents	2
Number reporting parents present	
As a requirement to giving the examination	3
Parents invited	17
Number reporting history taken of each child	20
Number reporting nurses present at examinations	20
Length of time given to the examination of each child	
1- 5 minutes	5
5-10 minutes	1
10-15 minutes	10
15 minutes and over	4
Number reporting records kept in	
Both health department and schools	3
Schools only	9
Health departments, but with transfers of some items to school records	8

* Fourth in a series of excerpts from a doctoral dissertation on file in Stanford University Library.

¹ Benjamin Spock, "The Changing Task of the School Physician," *Progressive Education*, XVI, December 1939, p. 576.

² Wheatley, *Present Status of School Health Service and the Necessity for Health Department Participation*, mimeographed, Children's Bur. U. S. Dept. of Labor, 1945, p. 5.

³ Committee on Professional Education, *American Public Health Ass'n.*, op. cit. p. 980.

⁴ Wheatley, *Present Status of School Health Service and the Necessity for Health Department Participation*, op. cit. p. 5.

In those departments reporting some participation in school examinations, 10 utilized full-time health department physicians for the program; four departments reported part-time physicians employed by the

health departments; three utilize both full-time and part-time physicians; and three departments report that examinations are done by private physicians. The examinations are almost universally conducted in the schools, with only two departments designating the health department clinic as the locale for the service.

An attempt was made to discover which children were selected for the school health examinations. The reports are not entirely clear on this point, but the indication is that examinations for school children in the departments rendering such service are rather generally limited to entering children and referrals. The method of referral was not given, with two exceptions where the health departments included the information that the nurse-teacher conference was used as a basis for selection of the children. Just how extensively, or for what reasons children were referred, is not known. In three counties and two cities, examinations of children in specified grades were conducted. This practice was reported by Berkeley, San Bernardino, Santa Barbara, San Jose, and Yolo Health Departments, and in addition, all entering children and referrals were listed. This last group would indicate rather complete coverage of the school population, provided one were certain that efforts had been made by teachers and nurses to discover children with health problems, and that all with significant problems had been referred.

High school students are seemingly almost entirely excluded from physical examination service by health departments. In only three departments, Berkeley, San Francisco, and San Jose, were high school pupils listed as receiving examinations; and in five other departments the high school athletes are included. Athletes are generally examined by other than the health department physicians, and the great mass of high school pupils evidently have no medical examinations conducted by health departments.

The extent and nature of the health examinations administered are difficult to evaluate by the questionnaire technique. Three questions were asked for the purpose of discovering some facts concerning the quality of the service: (1) checking the parts of the body examined, (2) whether or not the history is taken, and (3) the average length of time given to the examination of the individual child. Almost every department that gives physical examinations checked the items: eyes, ears, nose, throat, teeth, cervical glands, abdomen, orthopedic, nutritional condition, heart, lungs, skin, nervous condition. Urinalysis was included in only one reply and that was from San Joaquin County where children are examined in the health department clinic. Every department which conducts school examinations reported that a history is taken, although one admits that it is "not thorough." The length of time spent on each child varies considerably with five out of the 20

reporting five minutes or less for each child; one, 7 to 10 minutes; and the remainder from 10 to 30 minutes. Most physicians agree that a satisfactory appraisal of a child can not be made in less than 8 to 10 minutes. The standards which permit the conduct of a reasonably adequate health examination are evidently observed by the majority of the health departments.

To discover the relationship of the parent to the examination, health departments were asked if parents were required to be present before their children were examined or were invited to be present. Only three departments require the attendance of the parent, while the remainder report that parents are invited. The policy of refusing to examine children without the parent in attendance is based on the experience that much effort is wasted when parents are not present to receive advice and instructions concerning follow-up care, and that when the time of physicians is so greatly limited anyway, it is good sense to use their time where it will bring the greatest results. The presence of the parent is not usually requested at the high school examination for reasons already explained.

In every instance nurses were reported to be in attendance to (1) assist in examinations, (2) participate in the physician-parent conference, and (3) receive instructions from the physician for follow-up.

DISPOSITION OF HEALTH RECORDS

The disposition of the health records is always something of a problem when an outside agency is responsible for the school health services. The health department feels the need of having the records of the children to use in family consultation and follow-up procedures, while the school needs them for educational and health adjustment of the child in the school. The obvious solution to such a dilemma is to provide duplicate records for each agency, but this practice is not common. Three of the departments report having records of the school health examinations in both the health department and the schools, while eight more report some attempts to transfer their information to school records. In the remaining nine departments the records are kept in the schools, although the public health nurses use them for follow-up service.

RECOMMENDATIONS

From the reports of the activities of local health departments in the school physical examination program it appears that improvements could be made in the following ways:

1. By extending the service to greater numbers of children, particularly to those of high school age, as soon as sufficient medical personnel becomes available.

2. By making greater effort to have all parents of elementary school children present at the examinations.
3. By continuing the trend toward greater attention to each child through establishing a minimum period of approximately 10 minutes for each examination.
4. By emphasizing programs of teacher and nurse observation as a means of selecting children for examinations, in addition to the routine examination of all entering school children.
5. By requiring that an adequate health history of each child become a part of the examination.
6. By studying the problem of health records with the aim of developing a practice which makes essential health information available to both schools and health departments.

NEW HAVEN SOCIAL AGENCY COUNCIL HIRES HEALTH EDUCATOR

A group of voluntary agencies have taken a step which may well be followed by similar organizations throughout the country.

The New Haven Connecticut Council of Social Agencies in cooperation with the New Haven Health Department has hired a full-time health educator who will help the various council agencies in the development of health education activities.

Agencies contributing financial support are: Employees Tuberculosis Relief Association, the Restaurant Association, Connecticut Cancer Society and the local chapters of the National Foundation for Infantile Paralysis and the American Red Cross.

The new health educator will work very closely with the New Haven Health Department in the development of the total community program.

HEALTH DEPARTMENT MENTAL HYGIENE SERVICES DISCUSSED

Several fertile fields for the application of mental hygiene principles by health department personnel are suggested by Dr. Kent A. Zimmerman, Consultant in Mental Health in Division of Preventive Medical Services, State Department of Public Health, in his article "Mental Health Services in the Health Department Program" in the September issue of *The Child*.

The well-baby conference, prenatal clinic, health examination of school children, sex education lectures to high school students, and premarital examinations are examples of situations which offer splendid opportunities for the application of simple relationship therapy which will promote better mental health as part of the general health care of our people.

Dr. Zimmerman also outlines steps which can be taken by a health department to integrate mental hygiene services into its over-all program.

MORBIDITY REPORTS SELECTED DISEASES—CIVILIAN CASES

Total Cases for September and Total Cases for January Through September, 1946, 1945, 1944 and 5 Year Median (1941-1945)

Selected diseases	Current month				Cumulative			
	September				January through September			
	1946	1945	1944	5-yr. median 1941-1945	1946	1945	1944	5-yr. median 1941-1945
Chickenpox	266	570	577	358	20,758	30,500	29,432	34,913
Coccidioid granuloma	4	3			24	30	24	
Conjunctivitis - acute infectious of the newborn (Ophthalmia neonatorum)	10		1		43	16	27	
Diphtheria	85	95	67	67	902	849	859	728
Dysentery, bacillary	19	20	50		157	214	339	
Encephalitis, infectious	22	94	5		122	227	53	
Epilepsy	120	132	102		1,117	1,308	1,184	
Food poisoning	27	19	15		291	346	451	
German measles	97	140	168		11,671	10,826	14,055	
Influenza, epidemic	11	29	33	41	5,303	691	10,899	3,904
Jaundice, infectious	15	10	60		147	183	262	
Malaria	26	48	9	16	518	146	96	100
Measles	169	467	424	274	61,394	30,564	65,662	30,564
Meningitis, meningococci	33	38	48	38	441	553	635	553
Mumps	299	741	723	741	17,183	32,392	26,679	26,679
Pneumonia, infectious	77	153	211	175	1,701	2,734	3,359	2,734
Poliomyelitis, acute anterior	565	188	67	67	1,672	495	303	308
Rabies, animal	17	32	64	48	336	491	742	491
Rheumatic fever	56	42	39		529	544	434	
Scarlet fever	263	413	318	318	5,784	10,506	7,582	4,916
Septic sore throat, epidemic	18				30			
Smallpox				0	8	4	20	7
Tuberculosis:								
Pulmonary	759	552	648	648	6,468	6,117	6,193	5,750
Other forms	51	47	43	43	404	450	389	343
Typhoid fever	15	33	24	24	112	103	217	111
Typhus fever	7	3	11		44	53	23	
Undulant fever	23	23	46	23	222	167	243	167
Whooping cough	291	657	324	707	3,359	12,399	3,508	12,399
Veneral diseases:								
Chancroid	58	27	21		398	190	236	
Gonococcus infection	4,150	2,391	1,767	1,556	25,070	20,383	14,814	12,138
Granuloma inguinale	5	2			27	34	18	
Lymphogranuloma venereum	17	29	13		158	189	166	
Syphilis	3,182	1,985	1,763	1,985	10,223	20,911	20,763	20,763

OREGON BOARD OF HEALTH UNDERGOES REORGANIZATION

The Oregon State Board of Health has recently undergone an administrative reorganization in keeping with the proposals recommended by the Interim Committee of the 1943 Oregon State Legislature which studied the problem.

A Division of Preventive Medical Service has been established to consolidate the formerly separate divisions of Material and Child Health, Tuberculosis Control, and Venereal Disease Control. The Sanitary Engineering Division was maintained and County Health Units continue to be classified under a separate Division with a chief under the State Health Officer.

HALF MILLION FOR CANCER STUDIES

The University of California Medical School has received a bequest of more than half a million dollars to be used in cancer research.

The bequest, valued at \$592,065, is from the estate of the late Alber C. Hooper, Palo Alto philanthropist.

LOCAL REGISTRARS OF VITAL STATISTICS

(AS OF OCTOBER 1, 1946)

For the registration of births and deaths, the State is divided into registration districts, each with a local registrar as listed below. The county recorder is the local registrar for marriages.

ALAMEDA COUNTY

District No.	Name of District and Local Registrar
102	Alameda City James F. Brady, M.D., City Health Officer 226 Santa Clara Ave., Alameda
105	Albany Myrtle J. McLean, City Clerk 1045 Solano Ave., Albany 6
108	Berkeley Frank L. Kelly, M.D., City Health Officer City Hall, Berkeley 4
191	Decoto James R. Eubanks, Supt. Masonic Homes of California Decoto
110	Emeryville William A. Siebe, City Clerk Emeryville
106	Hayward City
151	Hayward Rural Irene Jamieson, City Clerk Hayward
152	Livermore and Area Paul E. Dolan, M.D., City Health Officer 213 J St., Livermore
153	Niles and Area D. R. Rees 750 First St., Niles
101	Oakland Stanford F. Farnsworth, M.D., City Health Officer City Hall, Oakland
107	Piedmont Harry J. Smith, M.D., City Health Officer City Hall, Piedmont
154	Pleasanton and Area Ernest W. Schween 514 Main St., Pleasanton
104	San Leandro City
155	San Leandro Rural Herbert H. Burbank, City Clerk San Leandro
190	San Leandro County Hospital Naomi Marlin Fairmont Hospital, Foothill Blvd., San Leandro

ALPINE COUNTY

250	Entire County Lillian B. Thornburg, County Recorder Markleeville
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AMADOR COUNTY

320	Amador City A. N. Bennetta, City Clerk Amador
350	Amador County (excluding cities named) S. J. Bonneau, County Recorder Jackson
321	Jackson Grace Tallon, City Clerk Jackson
322	Plymouth Celia Sherwood, City Clerk Plymouth
323	Sutter Creek Minnie Provis, City Clerk Sutter Creek

BUTTE COUNTY

401	Chico City
450	Chico Rural C. E. Tovee, City Health Officer P. O. Box 975, Chico
451	Gridley and Area Clinton F. Craig, City Clerk Gridley
452	Oroville and Area R. M. Carpenter, City Clerk Oroville

CALAVERAS COUNTY

District No.	Name of District and Local Registrar
520	Angels Camp and Area Ben H. Carlow, Justice of the Peace P. O. Box 87, Angels Camp
550	San Andreas and Area John Squellati, County Recorder San Andreas

COLUSA COUNTY

650	Arbuckle and Area La Motte H. Stinson Arbuckle
651	Colusa and Area B. L. McCue, City Clerk 429 Market St., Colusa

CONTRA COSTA COUNTY

(W. A. Powell, M.D., County Health Officer, Martinez, is local registrar for all of Contra Costa County except Richmond and immediate area. Asterisks denote his deputies.)

705	Antioch City
750	Antioch Rural *Charles N. Hornback, City Clerk 212 H St., Antioch
751	Brentwood *Bertha A. French P. O. Box 294, Brentwood
752	Concord *W. E. Ballenger, City Clerk 2080 Willow Pass Rd., Concord
704	El Cerrito City
753	El Cerrito Rural *Forrest H. Wright, City Treasurer P. O. Box 275, El Cerrito
702	Martinez City
754	Martinez Rural *Raymond B. Johnson, City Clerk Martinez
703	Pittsburg City
756	Pittsburg Rural *Frank Taormina, City Clerk Pittsburg
701	Richmond City
757	Richmond Rural Martin Mills, M.D., City Health Officer City Hall, Richmond

DEL NORTE COUNTY

850	Entire County John G. Smith, County Recorder Crescent City
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EL DORADO COUNTY

950	Entire County James W. Sweeney, County Recorder Placerville
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FRESNO COUNTY

1002	Coalinga W. C. Wallace, City Clerk Coalinga
1001	Fresno City William F. Stein, M.D., City Health Officer 1039 H St., Fresno
1054	Fresno County excluding Coalinga and Fresno City I. E. Farley, County Recorder Fresno (Asterisks denote his deputies)
1054	Clovis *L. E. Weldon, City Clerk Clovis
1054	Firebaugh *Albert L. Myer, City Judge Firebaugh
1054	Fowler *Mrs. Grace M. Frame Fowler
1054	Kingsburg *F. O. Rosander Kingsburg
1054	Sanger *C. M. Edgar, City Clerk Sanger

FRESNO COUNTY—Continued

District
No. Name of District and Local Registrar

1054 Selma
**J. Burt Edsall

1054 Selma
Reedley
**Rubie Bollin

GLENN COUNTY

1150 Butte City and Area
Agnes H. Klingler

1154 Butte
Orland and Area
Gus E. Franke, City Clerk

1155 Orland
Willows and Area
L. B. Eubank, City Clerk

HUMBOLDT COUNTY

1250 Arcata and Area
George F. Copley, City Clerk

1201 Arcata

1252 Eureka City
Eureka Rural
Carl T. Wallace, M.D., City Health Officer

1253 City Hall, Eureka
Ferndale and Area
B. M. Winslow, City Clerk

1254 430 Main St., Ferndale
Fortuna and Area
Ione W. Skarda, City Clerk

1256 Fortuna
Orleans and Area
Ernest J. Anderson, City Clerk

IMPERIAL COUNTY

(John L. Parker, M.D., County Health Officer, El Centro, is local registrar for all of Imperial County. Asterisks denote his deputies.)

1301 Brawley City
1350 Brawley Rural
*Charles C. Casey, City Clerk

1302 Brawley
Calixico City
1352 Calixico Rural
*Richard S. Emerson, City Clerk

1351 Calixico
Calipatria and Area
*Helen M. Kuns
101 N. Lake Ave., Calipatria

1303 El Centro City
1353 El Centro Rural
John L. Parker, M.D., County Health Officer

1354 Courthouse, El Centro
Holtville and Area
*E. M. Carpenter, City Clerk

1355 Holtville
Imperial and Area
John L. Parker, M.D., County Health Officer

INYO COUNTY

1450 Entire County
Mamie Reynolds, County Recorder

Independence

KERN COUNTY

(William C. Buss, M.D., County Health Officer, Bakersfield, is local registrar for all Kern County except Bakersfield City. Asterisks denote his deputies.)

1501 Bakersfield City
P. J. Cuneo, M.D., City Health Officer

1551 City Hall, Bakersfield
Bakersfield Rural
*V. Van Riper, City Clerk

1552 Bakersfield
Delano and Area
*Fny Cole Short, City Clerk

1562 Delano
Taft and Area
*Agnes D. Tarr, M.D.

1563 727 Kern St., Taft
Tehachapi and Randsburg
*W. L. Woods

1564 P. O. Box 14, Tehachapi
Wasco and Area
*Everett L. Kroesch

P. O. Box 546, Wasco

KINGS COUNTY

1651 Corcoran and Area
James C. Condon, City Clerk

Corcoran

KINGS COUNTY—Continued

District
No. Name of District and Local Registrar

1601 Hanford City

1652 Hanford Rural
Arthur E. Hird, City Clerk

1656 Civic Auditorium, Hanford
Lemoore and Area
W. W. Sheahan, City Clerk

Lemoore

LAKE COUNTY

1751 Lakeport and Upper Lake County
Fred L. Coles, Town Clerk

1753 Lakeport
Middletown and Lower Lake County
Ralph H. Read

Middletown

LASSEN COUNTY

1850 Entire County
William W. Packwood, County Recorder

Susanville

LOS ANGELES COUNTY

(Roy O. Gilbert, M.D., actg. County Health Officer, Los Angeles, is local registrar for all of Los Angeles County except the cities of Los Angeles, Long Beach, Pasadena and Beverly Hills, Margery E. Nolan, Chief Deputy Registrar is in charge. Asterisks denote his deputies.)

1902 Alhambra City

1979 Alhambra Rural
*Helen Foreman
612 W. Shorb St., Alhambra

1956 Angeles Mesa Rural
*Loretta E. Corral
730 N. San Vicente Blvd., West Hollywood 46

1914 Arcadia
*Ethel I. Parks
211 W. Colorado Blvd., Monrovia

1950 Avalon
*Elizabeth S. Haine Smith, City Clerk

Avalon, Catalina Island

1930 Azusa City
1951 Azusa Rural
*Jenny A. Overley

160 Azusa St., Azusa

1965 Belvedere Township
*Virginia M. Moore
670 S. Ferris Ave., Los Angeles 22

1915 Bell
*Effa M. Brannies
7300 S. Santa Fe Ave., Huntington Park

1916 Beverly Hills
B. J. Firminger, City Clerk
450 N. Crescent Dr., Beverly Hills

1917 Burbank
*Naomi G. Newsom
528 E. Olive Ave., Burbank

1918 Compton City
1955 Compton Rural
*Lane Fox
1301 N. Willowbrook Ave., Compton

1919 Culver City

1954 Culver City Rural
*Loretta E. Corral
730 N. San Vicente Blvd., West Hollywood 46

1957 Bellflower-Lakewood Rural
*Hazel E. Saurin
743 Bellflower Blvd., Bellflower

1935 El Monte
*Helen Foreman
612 W. Shorb St., Alhambra

1932 Gardena City
*Margaret W. Patriquin
2300 Carson St., Torrance

1907 Glendale City
1959 Glendale Rural
*Katherine C. Hogan
222 N. Glendale Ave., Glendale 6

1920 Hawthorne
*Marie K. Volse
101 S. Grevillea Ave., Inglewood

1931 Hermosa Beach
*Margaret Patriquin
2300 Carson St., Torrance

1990 Rancho Los Amigos
*Burnette Albertson
Rancho Los Amigos, Hondo

LOS ANGELES COUNTY—Continued

District No.	Name of District and Local Registrar
1921	Huntington Park City and San Antonio Rural *Ella M. Brannies 7300 S. Santa Fe Ave., Huntington Park
1922	Inglewood City
1961	Inglewood Rural *Marie K. Volse 101 S. Grevillea Ave., Inglewood
1969	Lancaster *Ethel A. McKenzie 311 W. 10th St., Lancaster
1903	Long Beach City Harrison Eilers, M.D., City Health Officer 218 E. First St., Long Beach
1964	Long Beach Rural *Hazel E. Saurin 743 Bellflower Blvd., Bellflower
1901	Los Angeles City George M. Uhl, M.D., City Health Officer 116 W. Temple St., Los Angeles 12
1923	Lynwood *Lane Fox 1301 N. Willowbrook Ave., Compton
1933	Manhattan Beach *Margaret W. Patriquin 2300 Carson St., Torrance
1908	Monrovia City
1966	Monrovia Rural *Ethel I. Parks 211 W. Colorado Blvd., Monrovia
1925	Montebello City
1962	Montebello Rural *Virginia M. Moore 670 S. Ferris Ave., Los Angeles 22
1926	Monterey Park *Helen Foreman 612 W. Shorb St., Alhambra
1924	Maywood *Ella M. Brannies 7300 S. Santa Fe Ave., Huntington Park
1968	Norwalk-Artesia Rural *Hazel E. Saurin 743 Bellflower Blvd., Bellflower
1991	Norwalk State Hospital *Mabel Branstrom Norwalk State Hospital, Norwalk
1970	Pasadena Rural *Mae Morris 323 Crosby St., Altadena
1904	Pasadena City Charles W. Arthur, Actg. City Health Officer City Hall, Pasadena
1905	Pomona City
1971	Pomona Rural *Gertrude M. Springer 280 W. Fifth Ave., Pomona
1909	Redondo Beach
1972	Torrance Rural *Margaret W. Patriquin 2300 Carson St., Torrance
1927	San Fernando City
1967	San Fernando Rural *Ferne F. Spurling 604 S. Maclay Ave., San Fernando
1928	San Gabriel City
1929	San Marino *Helen Foreman 612 W. Shorb St., Alhambra
1978	San Pedro Rural *Margaret W. Patriquin 2300 Carson St., Torrance
1906	Santa Monica City
1974	Santa Monica Rural *Ilah M. Cross 1525 Euclid St., Santa Monica
1934	Sierra Madre *Ethel I. Parks 211 W. Colorado Blvd., Monrovia
1913	South Pasadena *Marjorie J. Merritt City Hall, South Pasadena
1910	South Gate *Ella M. Brannies 7300 S. Santa Fe Ave., Huntington Park
1902	Sawtelle National Military Home *Joan G. Wheeler Veterans' Administration, Los Angeles 35
1911	Torrance *Margaret W. Patriquin 2300 Carson St., Torrance
1963	Veterans Hospital, San Fernando *Ferne F. Spurling 604 S. Maclay Ave., San Fernando

LOS ANGELES COUNTY—Continued

District No.	Name of District and Local Registrar
1912	Whittier City
1976	Whittier Rural *Edna M. Hill 402 S. Greenleaf Ave., Whittier
1953	West Hollywood Rural *Loretta E. Corral 730 N. San Vicente Blvd., West Hollywood 46
MADERA COUNTY	
2050	Madera County except City George Kenney, County Recorder Madera
2001	Madera City Lee A. Stone, M.D., County Health Officer 208 W. Sixth St., Madera
MARIN COUNTY	
2151	Mill Valley and Area Will Falley, City Clerk Mill Valley
2101	San Rafael Harry O. Hund, M.D., City Health Officer 1010 B St., San Rafael
2102	San Anselmo R. M. Overdick, City Clerk P. O. Box 207, San Anselmo
2153	San Rafael Rural Frank D. Burrows, County Recorder San Rafael
2154	Sausalito and Area Amelie L. Smith, City Clerk 731 Bridgeway, Sausalito
MARIPOSA COUNTY	
2250	Entire County D. G. Kidder, County Recorder Mariposa
MENDOCINO COUNTY	
2350	Covelo and Area Beatrice Lovell Covelo
2352	Ft. Bragg and Area Elsie M. J. Thorstrom, City Clerk 348 Harrison St., Fort Bragg
2354	Laytonville and Area J. W. Woodruff, Justice of the Peace Laytonville
2356	Point Arena and Area William H. Smith, City Clerk Point Arena
2390	Talmage and Area Gertrude Elliott Mendocino State Hospital, Talmage
2358	Ukiah and Area Lura Broadus Sheriff's Office, Ukiah
2360	Willits and Area Neva J. Watson P. O. Box 186, Willits
MERCED COUNTY	
2451	Gustine and Area W. L. Chappell, City Clerk Hotel Bldg., Fourth Ave., Gustine
2453	Livingston and Area E. C. Adams Box E, Livingston
2454	Los Banos and Area Alfred Lewis Los Banos
2455	Merced Rural Ellen Shipley, Deputy County Recorder Merced
2401	Merced City James J. Garibaldi, City Clerk P. O. Box 309, Merced
2458	Turlock and Area Walter M. Brown, City Clerk 108 N. Broadway, Turlock
MODOC COUNTY	
2550	Entire County T. H. Ballard, County Recorder Alturas
MONO COUNTY	
2650	Entire County George C. Delury, Jr., County Recorder Bridgeport
MONTEREY COUNTY	
(Kenneth C. Sheriff, M.D., County Health Officer, Salinas, is local registrar for all Monterey County. Asterisks denote his deputies.)	
2720	Carmel *Peter Mawdsley, City Clerk P. O. Box 293, Carmel

MONTEREY COUNTY—Continued

District No.	Name of District and Local Registrar
2750	King City *G. W. Meyer, City Hall, King City
2701	Monterey City
2751	Monterey Rural *Clyde A. Dorsey, City Clerk Monterey
2702	Pacific Grove *Martha Davidson Pacific Grove
2703	Salinas City
2752	Salinas Rural Kenneth C. Sheriff, M.D., County Health Officer Courthouse, Salinas
2754	Watsonville *Daniel D. Smith, M.D., City Health Officer 125 Third St., Watsonville

NAPA COUNTY

2850	Calistoga and Area Betty Marsh Calistoga
2801	Napa City
2852	Napa Rural R. S. Northrop, M.D., City Health Officer 1580 First St., Napa
2890	Napa State Hospital R. C. Shannon, Supervisor Napa State Hospital, Box A, Imola
2853	St. Helena and Area E. R. Palmer, City Clerk 1417 Main St., St. Helena
2891	Veterans Home at Napa Captain Wade H. English Adjutant's Office, Veterans Home of California, Napa

NEVADA COUNTY

2901	Grass Valley Lois M. LeDuc, City Clerk Grass Valley
2911	Nevada City George H. Calanan, City Clerk Nevada City
2950	County exclusive of Grass Valley and Nevada City John E. Nettell, County Recorder Nevada City

ORANGE COUNTY

(Edward Lee Russell, M.D., County Health Officer, Santa Ana is local registrar for all Orange County. Asterisks denote his deputies.)

3002	Anaheim *Charles E. Griffith, City Clerk Anaheim
3003	Fullerton *Carrie D. Adams, City Clerk Fullerton
3004	Orange City
3001	Santa Ana City
3055	Santa Ana Rural *Alta May Prosch Courthouse Annex, Santa Ana

PLACER COUNTY

3120	Auburn Christian I. Hauan, City Clerk Auburn
3150	Auburn Rural and Lake Tahoe Clayton J. Goodpastor, County Recorder Auburn
3151	Colfax and Area including Weimar Lester R. Starr, City Clerk Box 313, Colfax
3153	Forest Hill and Area L. C. Remler Box 201, Forest Hill
3154	Lincoln and Area Mabel D. Ahart, City Clerk Civic Auditorium, Lincoln
3101	Roseville City
3155	Roseville Rural Raleigh Terry, City Clerk Roseville

PLUMAS COUNTY

3250	Entire County Ida E. Hogan, County Recorder Quincy
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RIVERSIDE COUNTY

(Warren F. Fox, M.D., County Health Officer, Riverside, is local registrar for all of Riverside County. Asterisks denote his deputies.)

District No.	Name of District and Local Registrar
3350	Banning and Area *Mary M. Hill, City Clerk Banning
3351	Beaumont *Bernice Conine, City Clerk P. O. Box 146, Beaumont
3352	Blythe *Charles A. Cusick, City Clerk Blythe
3302	Corona
3353	Corona Rural *Harry L. Lyman, City Clerk Corona
3354	Elsinore *Carl E. Peterson 118 E. Graham Ave., Elsinore
3356	Indio *Mildred Tatum, City Clerk Indio
3355	Hemet *Ben G. Moulden, City Clerk 202 W. Florida Ave., Hemet
3357	Perris *Eva T. Bensinger, Justice Court Clerk P. O. Box 293, Perris
3301	Riverside City
3358	Riverside Rural Warren F. Fox, M.D., County Health Officer Courthouse, Riverside
3359	San Jacinto *Frank Negley, City Clerk P. O. Box 247, San Jacinto
3303	Palm Springs *Louise McCarn, City Clerk Palm Springs

SACRAMENTO COUNTY

3401	Sacramento City Albert F. Zipf, M.D., City Health Officer City Hall, Sacramento
3450	Entire County excluding Sacramento City Harry G. Krebs, County Recorder Sacramento

SAN BENITO COUNTY

3550	Entire County Elmer Dowdy, County Recorder Hollister
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SAN BERNARDINO COUNTY

(Merle E. Cosand, M.D., County Health Officer, San Bernardino, is local registrar for all of San Bernardino County except Ontario, Patton, and San Bernardino City. Asterisks denote his deputies.)

3604	Colton City *Elizabeth G. Davis, City Clerk Colton
3603	Ontario City C. C. Peabody, City Clerk Ontario
3691	Patton Ida K. Moisan, Secretary Patton State Hospital, Patton
3601	Redlands *H. R. Whaley, City Clerk Redlands
3602	San Bernardino City F. M. Gardner, M.D., City Health Officer 668 E St., San Bernardino
3605	Upland *Hazel M. Cassel, City Clerk Upland
3650	San Bernardino County Rural Merle E. Cosand, M.D., County Health Officer Courthouse, San Bernardino
3650	Victorville *B. M. Bennett Victorville
3650	Rialto *Estelle Bernhard Rialto
3650	Loma Linda Hospital *Evelyn Moran Loma Linda Hospital, Loma Linda
3650	Barstow *Orpha F. O'Donnell Barstow
3650	Trona *James H. McGee Trona

SAN BERNARDINO COUNTY—Continued

District No.	Name of District and Local Registrar
3650	Red Mountain *A. A. Turner
3650	Chino *E. C. Seitel
3650	Needles *F. B. Wilkin

SAN DIEGO COUNTY

3751	Chula Vista Rural Murray M. Campbell 322 Third Ave., P. O. Box 574, Chula Vista
3704	Chula Vista City Herbert Bryant, City Clerk Chula Vista
3702	Coronado Arthur A. Mathewson, City Clerk Coronado
3754	El Cajon and Area V. A. Christensen, City Clerk El Cajon
3755	Escondido and Area Guy B. Ashley, City Clerk 100 Valley Blvd., Escondido
3756	Fallbrook Mrs. Fred E. Huscher W. Alvarado, P. O. Box K, Fallbrook
3750	Jacumba Selma L. McKay Manzanita, via Pine Valley
3702	Jullian (Also Warner Springs) Annie Grand Jullian
3757	Lakeside Frances M. Burtch Woodside Ave., Lakeside
3758	La Mesa and Area E. C. Upp 8266 La Mesa Blvd., La Mesa
3703	National City *Mae Goshert Civic Center Bldg., San Diego 1
3760	Oceanside Edith Whiting, City Clerk Oceanside
3761	Ramona Madalene C. Davis 10th St., Ramona
3701	San Diego City Alex M. Lesem, M.D., City and County Health Officer Civic Center Bldg., San Diego 1 (asterisk denotes Dr. Lesem's deputy)

SAN FRANCISCO COUNTY

3801	San Francisco J. C. Geiger, M.D., City and County Health Officer 101 Grove St., San Francisco 2
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SAN JOAQUIN COUNTY

(John J. Sippy, M.D., County Health Officer, Stockton, is local registrar for the whole of San Joaquin County. Asterisk denotes his deputy.)

3901	Stockton City
3950	Stockton Rural John J. Sippy, M.D., County Health Officer 130 S. American St., Stockton
3902	Lodi *Dorris Black City Hall, Lodi 3

SAN LUIS OBISPO COUNTY

4001	San Luis Obispo City
4056	San Luis Obispo Rural (Philip A. Bearg, M.D., County Health Officer, San Luis Obispo, is local registrar for all of San Luis Obispo County.)

SAN MATEO COUNTY

(Charles C. Gans, M.D., County Health Officer, Redwood City, is local registrar for all San Mateo County except South San Francisco and San Bruno. Asterisks denote his deputies.)

4101	San Mateo
4102	Burlingame *Hazel Maxine Boyd 248 Larkin Ave., Redwood City
4103	Daly City *Inez A. Chelone 7375 Mission St., Daly City
4104	Redwood City Charles C. Gans, M.D., County Health Officer Courthouse, Redwood City

SAN MATEO COUNTY—Continued

District No.	Name of District and Local Registrar
4105	South San Francisco Daniel Joseph Hyland, City Clerk South San Francisco
4106	San Bruno Ralph E. Woodman, City Clerk San Bruno
4150	San Mateo County Rural *Charles Uomini Courthouse, Redwood City

SANTA BARBARA COUNTY

(Ira O. Church, M.D., County Health Officer, Santa Barbara, is local registrar for all Santa Barbara County except Santa Barbara City. Asterisks denote his deputies.)

4251	Carpinteria and Area *Frieda C. Zwimpfer Courthouse, Santa Barbara
4254	Lompoc and Area *Minnie M. Stewart Veterans' Memorial Bldg., Lompoc
4202	Santa Maria City
4257	Santa Maria Rural *Hazel R. Lidbom 112 S. Lincoln St., Santa Maria
4258	Santa Ynez and Area *Minnie M. Stewart Veterans' Memorial Bldg., Lompoc
4201	Santa Barbara C. T. Roome, M.D., City Health Officer City Hall, Santa Barbara
4256	Santa Barbara Rural *Frieda C. Zwimpfer Courthouse, Santa Barbara

SANTA CLARA COUNTY

(W. Elwyn Turner, M.D., County Health Officer, San Jose, is local registrar for all Santa Clara County except Agnew, Palo Alto City, San Jose City, Saratoga I. O. O. F. Home and Santa Clara County Hospital. Asterisks denote his deputies.)

4390	Agnew Melvin C. Jensen Agnews State Hospital, Agnew
4350	Alviso
4351	Campbell
4352	Cupertino *Lydia Klavano Hall of Justice, San Jose
4353	Gilroy *P. A. Cox City Clerk's Office, Gilroy
4354	Los Gatos *Ruth Blake City Clerk's Office, Los Gatos
4356	Milpitas *Lydia Klavano Hall of Justice, San Jose
4357	Morgan Hill *E. P. Johnson Morgan Hill
4358	Mt. View *E. B. Erichsen City Clerk's Office, Mt. View
4302	Palo Alto City Louis Olsen, City Health Officer City Hall, Palo Alto
4359	Palo Alto Rural *Lydia Klavano Hall of Justice, San Jose
4301	San Jose City Dwight M. Bissell, M.D., City Health Officer City Hall, San Jose 17
4360	San Jose Rural *Lydia Klavano Hall of Justice, San Jose
4391	Santa Clara County Hospital Louise S. Johnson Santa Clara County Hospital, San Jose
4303	Santa Clara City *Lydia Klavano Hall of Justices, San Jose
4361	Santa Clara Rural
4362	Saratoga
4392	Saratoga—I. O. O. F. Home B. Fowler Odd Fellows Home, Saratoga
4363	Sunnyvale *Ida Trubschenck City Clerk's Office, Sunnyvale

SANTA CRUZ COUNTY

4401	Santa Cruz City
4450	Santa Cruz Rural John O. Rafferty, M.D., County Health Officer 21 Front St., Santa Cruz, is local registrar for all of Santa Cruz County except Watsonville

SANTA CRUZ COUNTY—Continued

- District No. Name of District and Local Registrar**
- 4402 Watsonville City
Daniel D. Smith, M.D., City Health Officer
125 Third St., Watsonville
- 4452 Watsonville Rural
John O. Rafferty, M.D., County Health Officer
21 Front St., Santa Cruz

SHASTA COUNTY

- 4550 Fall River Mills
Gertrude Barkus
Fall River Mills
- 4501 Redding City
Doris L. Holland, City Clerk
Box 271, Redding
- 4551 Redding Rural
Winona Simmons, County Recorder
Redding

SIERRA COUNTY

- 4651 Downieville and Area
Margaret Elaine Lambert
Downieville
- 4650 Forest and Area
Adele Deal
Forest
- 4652 Loyalton and Area
Clyde D. Spradling, City Health Officer
P. O. Box 464, Loyalton
- 4654 Sierra City and Area
Alba Cox, Postmaster
Sierra City
- 4655 Sierraville and Area
Alden N. Johnson
Sierraville

SISKIYOU COUNTY

- 4721 Dunsmuir and Area
Charles S. Huff, City Clerk
Dunsmuir
- 4725 Mt. Shasta and Area
John Rule, City Clerk
Mount Shasta
- 4750 Yreka and Area (Dorris)
Ernest T. Johnson, County Recorder
Yreka

SOLANO COUNTY

- 4850 Benicia and Area
Anna G. Pine, City Clerk
700 First St., Benicia
- 4852 Dixon and Area
Stuart Grady, City Clerk
Dixon
- 4853 Elmira and Area
L. W. Eddy
Elmira
- 4854 Rio Vista and Area
Irving H. Pearce, Justice of the Peace
P. O. Box 799, Rio Vista
- 4855 Suisun, Green Valley, Fairfield and Area
Arthur Garben
714 Texas St., Fairfield
- 4856 Vacaville and Area
O. E. Alley, City Health Officer
P. O. Box 26, Vacaville
- 4801 Vallejo City
- 4857 Vallejo Rural
Melvin F. Brooks, City Clerk
Vallejo

SONOMA COUNTY

- 4990 Eldridge—Sonoma State Home
F. O. Butler, M.D., Med. Supt.
Sonoma State Home, Eldridge
- 4901 Petaluma City
N. B. Rundall, D.O., City Health Officer
City Hall, Petaluma
- 4902 Santa Rosa City
E. J. Helgren, City Health Officer
City Hall, Santa Rosa
- 4955 Sonoma County exclusive of 4990, 4901 and 4902
Edith Young, M.D., County Health Officer
3325 Chanate Rd., Santa Rosa

STANISLAUS COUNTY

- 5001 Modesto City
Mark J. Landquist, City Health Officer
P. O. Box 642, Modesto
- 5050 Modesto Rural
R. G. Waring, County Recorder
Modesto
- 5051 Newman and Area
H. C. Kingsbury, City Clerk
West Side Theatre Bldg., Newman
- 5052 Oakdale and Area
James M. Greening, City Clerk
760 Yosemite Ave., Oakdale

STANISLAUS COUNTY—Continued

- District No. Name of District and Local Registrar**
- 5053 Turlock and Area
Walter M. Brown, City Clerk
108 N. Broadway, Turlock

SUTTER COUNTY

- 5150 Entire County
E. M. Boyd, County Recorder
Yuba City

TEHAMA COUNTY

- 5251 Corning and Area
Leonor R. Lukens, City Clerk
715 Fourth St., Corning
- 5250 Red Bluff and Area
Enville C. Spaulding, City Clerk
Red Bluff

TRINITY COUNTY

- 5350 Weaverville and Area
Leonard M. Morris, County Recorder
Weaverville

TULARE COUNTY

- 5401 Visalia City
- 5456 Visalia Rural
Jean E. Armstrong, City Clerk
Visalia
- 5451 Dinuba and Area
Gladys M. Archer, City Clerk
Dinuba
- 5452 Exeter and Area
Reed Testerman, City Clerk
137 N. F St., Exeter
- 5453 Lindsay and Area
David H. Edwards, City Clerk
P. O. Box 465, Lindsay
- 5402 Porterville City
- 5454 Porterville Rural
Jap Elledge, City Clerk
P. O. Box 31, Porterville
- 5403 Tulare City
- 5455 Tulare Rural
Hazel V. Hoyt, Acting City Clerk
Tulare

TUOLUMNE COUNTY

- 5550 Entire County
Wm. F. King, County Recorder
Sonora

VENTURA COUNTY

(Frank E. Gallison, M.D., County Health Officer, Ventura, is local registrar for all of Ventura County. Asterisks denote his deputies.)

- 5601 Oxnard City
- 5651 Oxnard Rural
*William H. Groff
City Hall, Oxnard
- 5602 Santa Paula City
- 5653 Santa Paula Rural
*Hersel J. Hopkins
City Hall, Santa Paula
- 5603 Ventura City
*Grace M. Woodruff, City Clerk
Ventura
- 5650 Fillmore
*C. Arrasmith, City Clerk
Fillmore
- 5652 Ventura Rural
*Wilma Skinner
684 Buena Vista St., Ventura
- 5654 Ojai
*Harriet M. Vondergembs
City Hall, Ojai

YOLO COUNTY

- 5701 Woodland City
- 5750 Yolo County exclusive of Woodland
John G. O'Hara, M.D., County Health Officer, Woodland, is local registrar for all of Yolo County
P. O. Box 267, Woodland

YUBA COUNTY

- 5801 Marysville City
Chester O. Gates, City Clerk
Marysville
- 5850 County exclusive of Marysville
Helen Waste, County Recorder
Marysville
- * Deputies to County Health Officers
** Deputies to County Recorders

